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PHOTOGRAPHIC INTERPRETATION MEMORANDUM

NEW SAM INSTALLATIONS OBSERVED IN THE USSR

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JANUARY 1969

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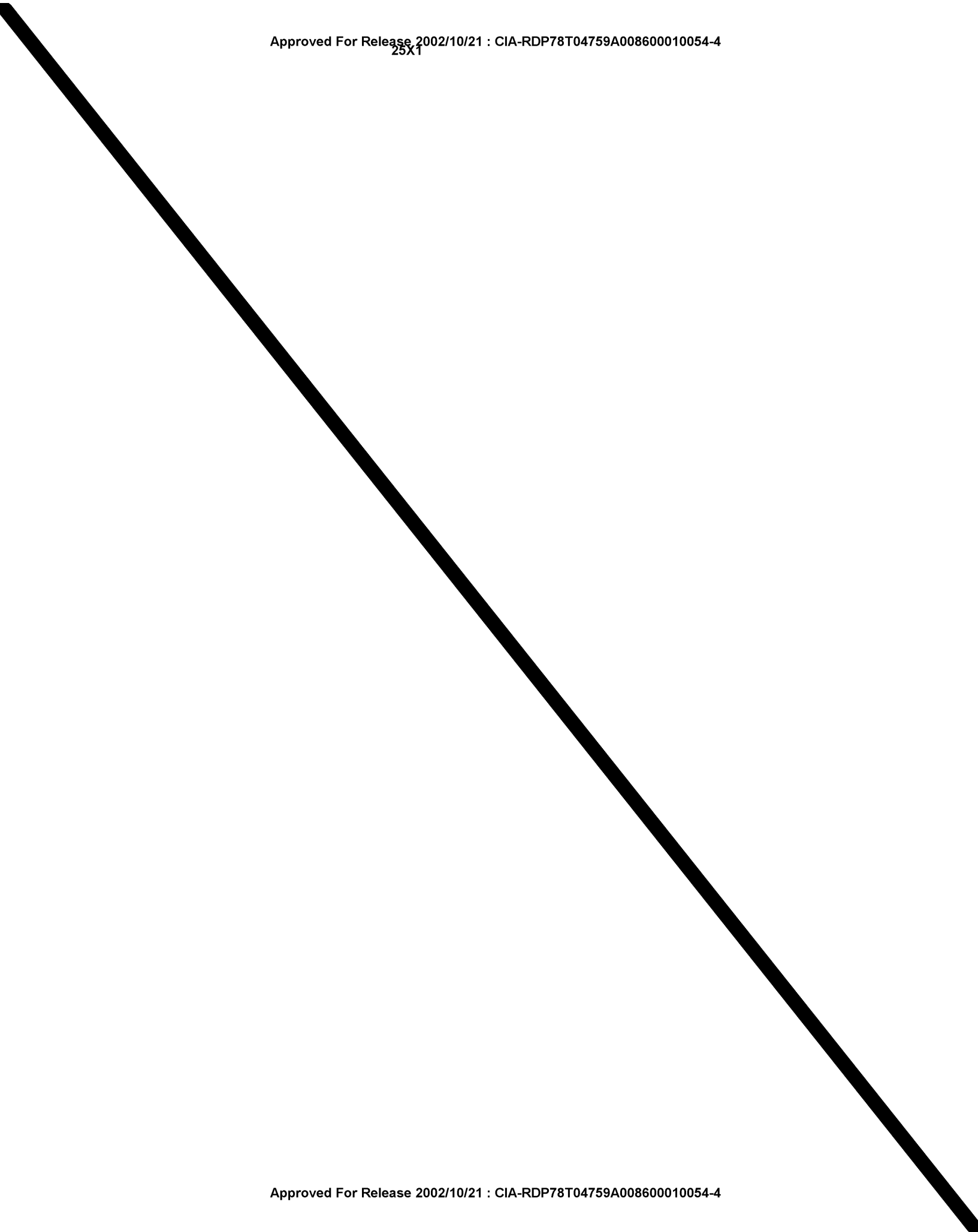

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NEW SAM INSTALLATIONS OBSERVED IN THE USSR

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A total of 19 new surface-to-air missile (SAM) installations were identified in the USSR (Figure 1) Specifically, these new installations include three new SA-5 SAM complexes, five new SA-2 SAM sites, and 11 new SA-3 SAM sites (Table 1).

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Three newly identified SA-5 SAM complexes bring the total number of known SA-5 complexes in the USSR to 65. These new complexes were identified at Maloyaroslavets, Nakohodka, and Novosibirsk. The complex at Nakhodka (Figure 2, top) is the first SA-5 SAM complex to be built in extremely rugged terrain. Extensive ground preparations were required in flattening two hilltops to prepare the launch sites. The exact date construction was started is difficult to determine.

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Of the five newly identified SA-2 SAM sites, one of these, Krasnodar SAM Site C29-2, was reactivated over a former site. These sites bring the total number of known SA-2 sites in the USSR to 1,075.

Eleven newly identified SA-3 SAM sites bring the total number of known sites in the USSR to 153. At least five of the new sites, including those at Zhdanov and Novorossiysk, are of a configuration observed for the first time. This new configuration (Figure 2, bottom) has the four launch positions set in a square pattern with its guidance area in the center.

It is significant that, with the exception of the Nakhodka SA-5 complex, construction was started quite recently on a majority of the new sites. Barano-Orenburgskoye A05-2 was not present and Yesk B23-2 was not present Construction of all other installations was started as recently

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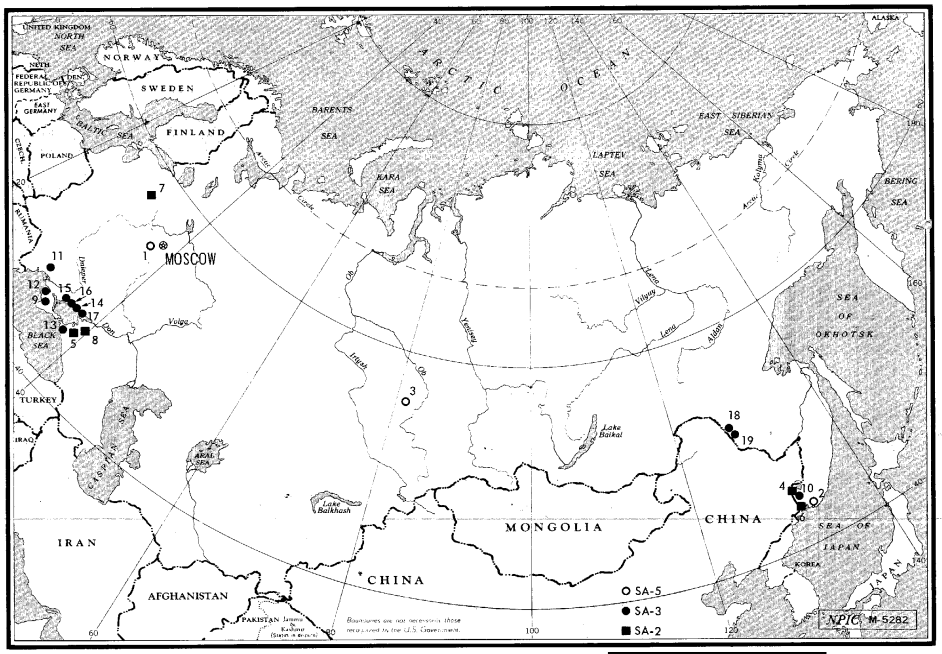

FIGURE 1. LOCATION OF 19 NEW SAM INSTALLATIONS OBSERVED

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Table 1. New SAM Installations Observed in the USSR

Item Number	Installation Name	Installation Designator	Coordinates	Occupancy	Construction Status
1	Maloyaroslavets	A19-5	54-55-58N 036-27-30E	Unoccupied	Early
2	Nakhodka	B30-5	42-58-10N 132-31-10E	Occupied	Late
3	Novosibirsk	B03-5	55-14-40N 083-06-40E	Unoccupied	Early
5	Krasnodar	C29-2	45-08-30N 038-30-20E	Unoccupied	Complete
6	Vladivostok	B29-2	43-08-40N 131-37-00E	Unoccupied	Mid-late
7	Valday	B31A-2	58-09-10N 032-46-10E	Unoccupied	Mid-late
8	Yeysk	B23-2	46-35-20N 038-05-15E	Unoccupied	Complete
10	Ussuriysk	B03-3	44-02-10N 132-07-00E	Unoccupied	Mid-late
11	Nikolayev	A25-3	46-55-50N 031-54-00E	Unoccupied	Complete
12	Chernomorskoye	A28-3	45-30-40N 032-40-08E	Unoccupied	Complete
13	Novorossiysk	A14-3	44-37-40N 037-55-40E	Occupied	Mid-late
14	Zhdanov	A24-3	47-02-50N 037-27-00E	Occupied	Mid-late
15	Zhdanov	B23-3	46-58-00N 037-19-50E	Occupied	Complete
16	Zhdanov	A27-3	47-05-50N 037-27-00E	Occupied	Complete
17	Zhdanov	A10-3	47-06-20N 037-43-20E	Occupied	Mid-late
18	Malaya Sazanka	B31-3	51-27-50N 127-30-30E	Unoccupied	Early
19	Malaya Sazanka	B23-3	51-03-40N 127-51-20E	Unoccupied	Early

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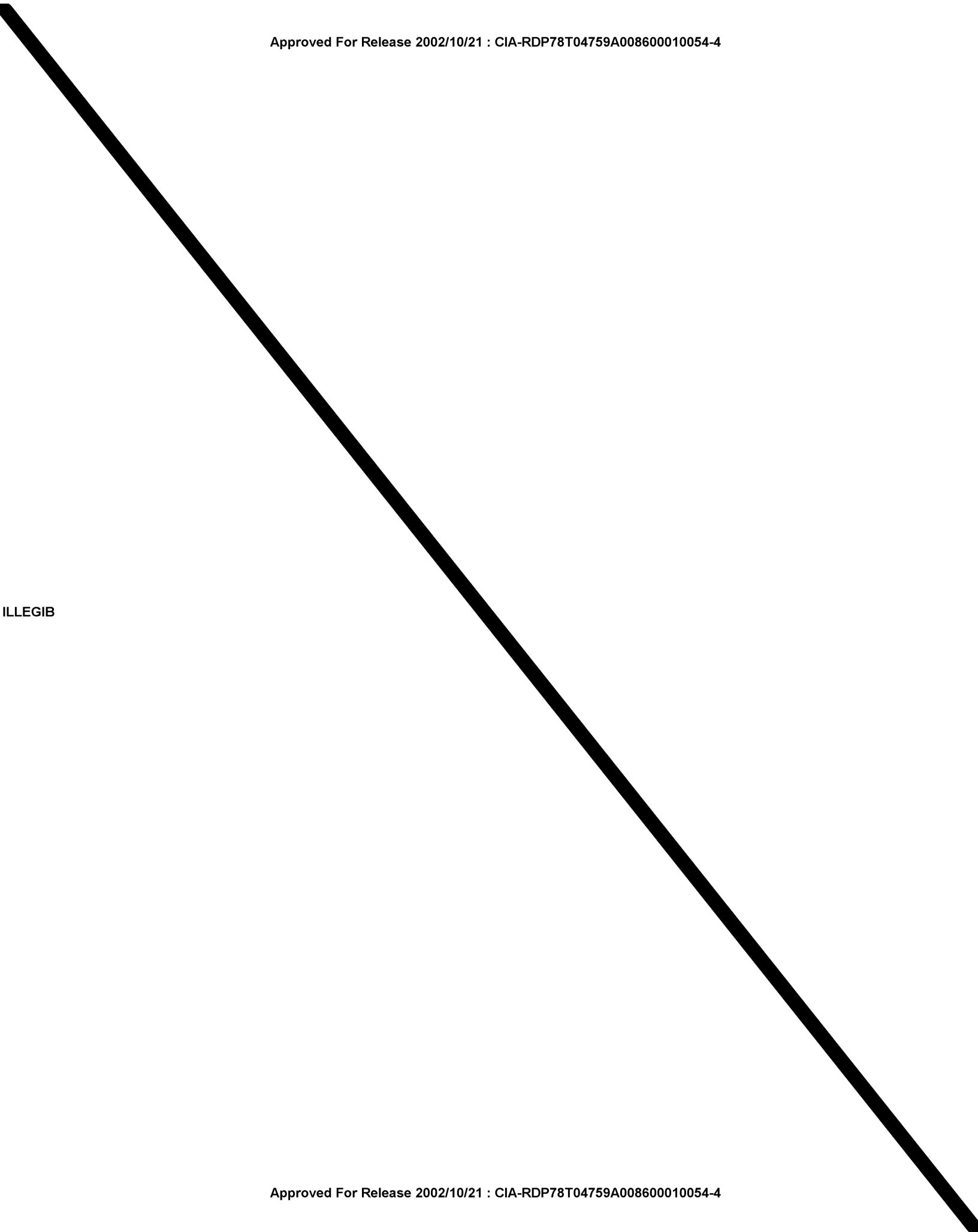

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